

-2-

196502US23 CONT
Amendment dated 07/11/2006

09/644,984

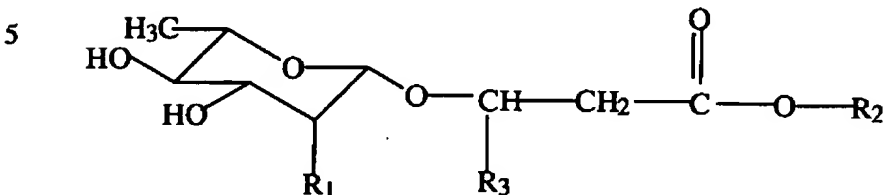
09000003aa
Reply to office action mailed 01/11/2006

The following is a complete listing of all claims in the application, with an indication of the status of each:

Listing of claims:

1 1-25. (Cancelled)

1 26. (Currently amended) A method ~~for the treatment of~~ to treat signs of aging
2 of the skin, comprising: administering to a subject in need ~~thereof of a~~
3 treatment for signs of aging of the skin, an effective amount of a composition
4 comprising one or more rhamnolipids of Formula I:



6 wherein R¹ = H, unsubstituted α-L-rhamnopyranosyl, α-L-rhamnopyranosyl
7 substituted at the 2 position with a group of formula -O-C(=O)-CH=CH-R₅,
8 or -O-C(=O)-CH=CH-R₅;

9 R² = H, lower alkyl, -CHR₄-CH₂-COOH or -CHR₄-CH₂-COOR₆;

10 R³ = -(CH₂)_x-CH₃, wherein x = 4-19;

11 R⁴ = -(CH₂)_y-CH₃, wherein y = 1-19;

12 R⁵ = (CH₂)_z-CH₃, wherein z = 1-12; and

13 R⁶ = lower alkyl,

14 thereby promoting re-epithelization of the skin and thereby treating signs of
15 aging of the skin.

-3-

196502US23 CONT

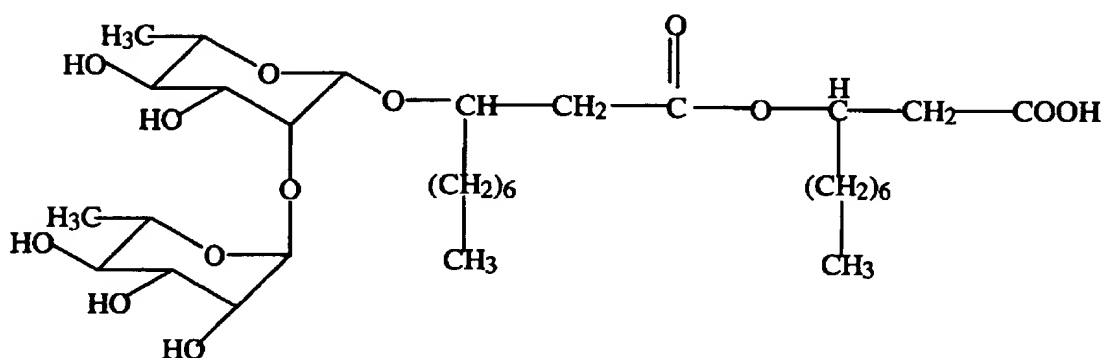
09/644,984

09000003aa

Amendment dated 07/11/2006

Reply to office action mailed 01/11/2006

- 1 27. (Previously presented) The method as claimed in claim 26, wherein said
 2 rhamnolipid of Formula 1 is α -L-rhamnopyranosyl-(1,2)- α -L-
 3 rhamnopyranosyl)-3-hydroxydecanoyl-3-hydroxydecanoic acid having the
 4 following formula:



- 1 28. (Previously presented) The method as claimed in claim 26, wherein the
 2 one or more rhamnolipids of Formula 1 are selected from the group consisting
 3 of compounds of Formula 1 wherein:
 4 $R^1 = -O-C(=O)-CH=CH-R_5$, $R^2 = -CHR_4-CH_2-COOH$, $R^3 = -(CH_2)_6-$
 5 CH_3 , $R^4 = -(CH_2)_2-CH_3$, and $R^5 = -(CH_2)_6-CH_3$;
 6 $R^1 = \alpha$ -L-rhamnopyranosyl substituted at the 2-position by $-O-C(=O)-$
 7 $CH=CH-R^5$, $R^2 = -CHR^4-CH_2-COOCH_3$, $R^3 = (CH_2)_6-CH_3$, $R^4 = -(CH_2)_6-CH_3$,
 8 and $R^5 = -(CH_2)_6-CH_3$;
 9 $R^1 = -O-C(=O)-CH=CH-R_5$, $R^2 = -CHR_4-CH_2-COOCH_3$, $R^3 = -$
 10 $(CH_2)_6-CH_3$, $R^4 = -(CH_2)_2-CH_3$, and $R^5 = -(CH_2)_6-CH_3$; and
 11 $R^1 = \alpha$ -L-rhamnopyranosyl substituted at the 2-position by $-O-C(=O)-$
 12 $CH=CH-R^5$, $R^2 = -CHR^4-CH_2-COOCH_3$, $R^3 = -(CH_2)_6-CH_3$, $R^4 = -(CH_2)_6-CH_3$,
 13 and $R^5 = -(CH_2)_6-CH_3$.